



534633

(43) International Publication Date
10 June 2004 (10.06.2004)

PCT

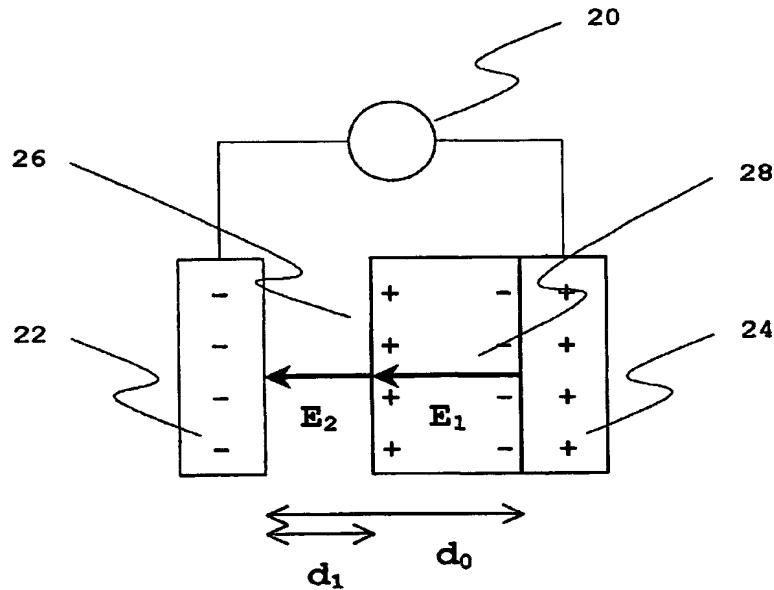
(10) International Publication Number
WO 2004/049379 A2(51) International Patent Classification⁷: H01J 21/02,
19/24, F25B 21/00, H01L 37/00Pavilion, 8-10 Queensway, Gibraltar (GI). TSAKADZE,
Leri [—/—]; c/o Borealis Technical Limited, Montagu
Pavilion, 8-10 Queensway, Gibraltar (GI).(21) International Application Number:
PCT/IB2003/006484(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR,
CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,
KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN,
MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU,
SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.(22) International Filing Date:
27 November 2003 (27.11.2003)(84) Designated States (regional): ARIPO patent (BW, GH,
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,
SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA,
GN, GQ, GW, ML, MR, NE, SN, TD, TG).(25) Filing Language:
English(26) Publication Language:
English(30) Priority Data:
0227687.1 27 November 2002 (27.11.2002) GB(71) Applicant (for all designated States except US): BORE-
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8-10 Queensway, Gibraltar (GI).

Published:

— without international search report and to be republished
upon receipt of that report

[Continued on next page]

(54) Title: METHOD FOR INCREASING EFFICIENCY OF THERMOTUNNEL DEVICES



(57) Abstract: The present invention comprises a tunneling device in which the collector electrode is modified so that tunneling of higher energy electrons from the emitter electrode to the collector electrode is enhanced. In one embodiment, the collector electrode is contacted with an insulator layer, preferably aluminum oxide, disposed between the collector and emitter electrodes. The present invention additionally comprises a method for enhancing tunneling of higher energy electrons from an emitter electrode to a collector electrode, the method comprising the step of contacting the collector electrode with an insulator, preferably aluminum oxide, and placing the insulator between the collector electrode and the emitter electrode.

WO 2004/049379 A2